88888888888888888888888888888888888888	00000000 00000000 00000000	00000000 00000000 00000000		\$		
888 888 888 888 888 888	000 000 000 000	000 000 000 000		\$\$\$ \$\$\$ \$\$\$		
888 888 888	000 000	000 000	111	SSS		
888 888888888888 888888888888	000 000 000 000 000	000 000 000 000	111 111	\$\$\$ \$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$		
88888888888888888888888888888888888888	000 000 000 000 000	000 000 000 600 000 000	111 111 111	SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS		
888 888 888 888	000 000	000 000	III	\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$		
888 888 888 888 8888888888888	000 000	000 000		\$\$\$ \$\$\$ \$\$\$		
88888888888888888888888888888888888888	00000000	000000000	iii	\$		

RRRRRRRR RR RR RR RR RR RR RR RR RRRRRRR	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	RRRRRRRR RR	MM MM MMM MMM MMMM MMMM MMMM MMM MM MM M	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
		\$					

READPRMPT - READ AND PROMPT ROUTINE 15-SEP-1984 23:59:11 VAX/VMS Macro V04-00

(2) 52 DECLARATIONS
(3) 89 BOO\$READPROMPT - Prompt and read input string
(3) 162 RIO\$OUTPUT\_LINE - Output one line

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10

16 :\*

18 \* 19 \* 20 \*

40

44

0000

0000

Page 1

.TITLE READPRMPT - READ AND PROMPT ROUTINE .IDENT 'V04-000'

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## : FACILITY:

## ABSTRACT:

This module contains a routine (BOO\$READPROMPT) which writes a prompt line and reads a line of input from the console terminal using QIOs. Either writing the prompt line or reading the input line may be bypassed.

ENVIRONMENT: User mode

AUTHOR: STEVE BECKHARDT, CREATION DATE: 27-Sep-1979

MODIFIED BY:

V03-002 KDM0090 Kathleen D. Morse 01-Dec-1983 Make psect word aligned.

V03-001 JLV0134 Jake VanNoy 31-Dec-1981 Add routine RIO\$OUTPUT\_LINE.

```
.SBTTL BOOSREADPROMPT - Prompt and read input string
                                  : ++
                                                 Functional Description:
BOOSREADPROMPT outputs the specified ASCIZ prompt string on the
                                                          console terminal then checks the count of characters to be read. If zero it exits, otherwise it reads the console terminal until
                                                          either a carriage return is encountered or the character count is satisfied. The specified buffer is filled with an ASCIC
                                                          string containing the characters read but not including the
                                                          terminating carriage return.
                                                  Calling Sequence: CALLG ARGLIST, BOO$READPROMPT
                                           102
103
                                                  Input Parameters:
PROMPT(AP) - Address of ASCIZ prompt string
                                           104
                     00000004
                                                          PROMPT = 4
                                           106
107
                                                          SIZE (AP)
                                                                             Maximum length of input string
                     80000008
                                           108
                                                                   = 8
                                           109
                                                                              Note: if size is zero, then nothing is read
                                                                                     and only the prompt string is written.
                                                          BUF (AP)
                                                                             Address of input buffer
                     000000C
                                                          BUF
                                                                   = 12
                                  0000
0000
0000
                                           114
                                                  Output Parameters:
                                                          RO - Completion status code
                                                          Buffer located by BUF(AP) will be filled with the string
                                                          read as an ASCIC string.
                                          120
121
122
123
124
125
                                               BOOSREADPROMPT::
                          0004
                                                                    ^M<R2>
                                                          . WORD
                            B5
12
                0008°CF
                                                          TSTW
                                                                    W^CHANNEL
                                                                                                  ; Channel assigned yet?
                                                          BNEQ
                                           28
129
130
                                                                              CHAN = W^CHANNEL,- ; No, assign it
                                  8000
                                                          SASSIGN_S
                                                                              DEVNAM = DEVNAM_DSC,-
                                  8000
                                  8000
                                                                                                  ; Allow access from user mode
                                                                              ACMODE = #3
                  73 50
                            E9
                                                          BLBC
                                                                    RO.90$
                                                                                                    Error
                                           132
133
134
135
                            3A
C2
D0
13
D0
04 BC
         FFFF 8F
                      00
                                               10$:
                                                          LOCC
                                                                    #0, #^XFFFF, aPROMPT(AP)
                                                                                                    Locate end of prompt string
                  04
                                                                                                    R1 = size of prompt string
R0 = size of input buffer
                      AC
                                                          SUBL
                                                                    PROMPT(AP),R1
            50
                                                                    SIZE (AP), RO
                                  002B
                                                          MOVL
                                  002F
0031
0035
0035
                                                          BEQL
                                                                                                    No input buffer
            52
                  00
                      AC
                                                          MOVL
                                                                    BUF (AP), R2
                                                                                                  ; R2 = address of input buffer
                                           138
139
                                                          $QIOW_S CHAN = W^CHANNEL,-
                                                                                                    Prompt and read
                                                                    FUNC = #10$ READPROMPT, -
                                           140
                                                                    IOSB = WATOSTBLK,-
                                           141
                                           142
143
144
145
                                                                    P1 = 1(R2),-
P2 = R0,-
                                                                                                    Address of input buffer
Size of input buffer
                                                                    P5 = PROMPT(AP),-
                                                                                                     Address of prompt buffer
                                                                    P6 = R1
                                                                                                    Size of prompt buffer
```

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VAX/VMS Macro V04-00

[BOOTS.SRC]READPRMPT.MAR; 1

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(3)

- READ AND PROMPT ROUTINE 15-SEP-1984 23:59:11 BOO\$READPROMPT - Prompt and read input s 4-SEP-1984 23:05:24

			- RE	AD AND	PROMPT R	ROUTINE	F 10 15-SEP-1984 23: 1 input s 4-SEP-1984 23:	:59:11	VAX/VMS Macro V04-00 EBOOTS.SRCJREADPRMPT.MAR;1	Page	(3)
2	50	36.50 0000°CF 0002°CF 2A	E9 30 90	005A 005D 0062 0067	146 147 148 149	BLBC MOVZWL MOVB BRB	RO,90\$ W^IOSTBLK,RO W^IOSTBLK+2,(R2) 90\$	; Get	ror t I/O status block ore size of input line		
				0069 0069 0069	151 201 152 153	s: \$QIOW_S	CHAN = W^CHANNEL,- FUNC = #IO\$ WRITEVBLK,- IOSB = W^IOSTBLK,-	; Wr	ite prompt string, no input		
,	50	05.50 0000°CF	E9 30	0069 0069 008B 008E	154 155 156 157 158	BLBC MOVZWL	P1 = aPROMPT(AP),- P2 = R1 R0,90\$ W^10STBLK,R0	; Eri	dress of prompt buffer ze of prompt buffer ror t I/O status block		
			04	0093	159 901	: RET					

READPRMPT V04-000 READPRMPT V04-000

00:00:08.25

The working set limit was 900 pages.
4406 byies (9 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 16 non-local and 3 local symbols.
188 source lines were read in Pass 1, producing 13 object records in Pass 2. 6 pages of virtual memory were used to define 6 macros.

Assembler run totals

I 10

READPRMPT VAX-11 Macro Run Statistics

- READ AND PROMPT ROUTINE

15-SEP-1984 23:59:11 VAX/VMS Macro V04-00 Pag 4-SEP-1984 23:05:24 [BOOTS.SRC]READPRMPT.MAR;1

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(3)

Macro library statistics !

Macro library name

Macros defined

0066

\_\$255\$DUA28:[BOOTS.OBJ]BOOTS.MLB;1 \$255\$DUA28:[SYS.OBJ]LIB.MLB;1 \_\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)

70 GETS were required to define 6 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:READPRMPT/OBJ=OBJ\$:READPRMPT MSRC\$:READPRMPT/UPDATE=(ENH\$:READPRMPT)+EXECML\$/LIB+LIB\$:BOOTS.MLB/LIB

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